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(54) Title: NOVEL THERAPEUTIC EXTRACTS AND MOLECULES FOR DEGENERATIVE CONDITIONS

(57) **Abstract:** In this invention we have characterized plant extracts derived from common plants used in Indian traditional medicine using a) chemical fingerprinting by HPLC and b) etiology based in-vitro cell assays in order to reduce the extracts to minimum constituent to use for therapeutic purpose against degenerative conditions like cardiovascular diseases, Diabetes mellitus, Hypertension, All types of Cancers, Obesity & weight problems, Arthritis & pain, Alzheimer's disease, Multiple sclerosis & Autoimmune diseases, Asthma & Allergies, Osteoporosis & bone health, Parkinson's disease, Stress, Disorders & diseases of the eye. The current status of the extracts is that all of them have been chemically fingerprinted and have gone through assays to screen anti-diabetic activity. Thus currently we are applying for the specific leads that have shown very specific antidiabetic activity. However we are also working in parallel, to test these extracts in other assays, for generating information of there applicability in the prevention or treatment of degenerative conditions as mentioned above. As and when we will have data to support disease specific application of individual extracts we will amend our claims accordingly. The present invention relates to a composition for curing or treating degenerative disorders, a process for the preparation of the same, and usage of the same and, more particularly, to the composition having as a major component a single extract or multiple extracts containing therapeutically relevant bioactive, obtained from a certain kind of plant/plants and being capable of lowering or reducing a level of glucose in the blood of a patient suffering from diabetes mellitus by alleviating or ameliorating various symptoms caused by or associated with the diabetes mellitus as well as preventing the glucose level in the blood of the diabetic patient with high certainty from arising again. The invention also relates to the in-vitro screening of plant extracts for anti-diabetic activities in multiple cell based and biochemical systems. Studies have shown eleven potential leads, which are very valuable as they could lead to bioactives having therapeutic activity in the treatment of like cardiovascular diseases, Diabetes mellitus, Hypertension, All types of Cancers, Obesity & weight problems, arthritis and pain, Alzheimer's disease, multiple sclerosis and autoimmune diseases, asthma and allergies, osteoporosis and bone health, Parkinson's disease, stress, disorders and diseases of the eye.

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